



PHILIPPINE NATIONAL OIL COMPANY

PNOC Building VI, Energy Center
Rizal Drive, BGC, Taguig City
Tel. No.: 8789 – 7662

www.philgeps.gov.ph / www.pnoc.com.ph

REQUEST FOR QUOTATION / PROPOSAL

The PHILIPPINE NATIONAL OIL COMPANY (PNOC) through its Bids and Awards Committee (BAC), invites all interested and PhilGEPS-registered suppliers / contractors / consultants to submit quotations / proposals for the following company requirements:

Date : **October 5, 2021**
Project Title : **REPAIR OF DAMAGED RIPRAP AT PNOC ESB**
Reference No. : **2021-08-181**
Total ABC : **PhP620,000.00**
Submission Deadline: **October 13, 2021 / 5:00 PM**

Accomplished Price Quotation/Proposal and Compliance Form may be submitted through registered or electronic mail to the PNOC Procurement Management Division at the above address or to procurement@pnoc.com.ph and hdvallano@pnoc.com.ph no later than the submission deadline together with the following documentary requirements and information:

- Mayor's/Business Permit
- PhilGEPS Registration Number
- Signed Terms of Reference / Technical Specification Sheet (if applicable)
- Latest Business/Income Tax Return
- Omnibus Sworn Statement (Unnotarized) copy may be submitted prior to submission deadline, but the notarized one shall be submitted after award or before payment).

Additional Requirements:

- Project Inspection Certificate
- Bill of Quantities
- PCAB License

The PNOC reserves the right to accept or reject any or all quotations/proposals or parts thereof, to waive formality therein or to accept such or to award any that are considered most advantageous to the company.

Thank you.


EVANGELINE B. ALBAYTAR
Chairperson
Bids and Awards Committee



PHILIPPINE NATIONAL OIL COMPANY
Energy Supply Base Department,
Mainaga, Mabini, Batangas

TERMS OF REFERENCE (TOR)

Project : Repair of Damaged Riprap at PNOC ESB

Project Location : Energy Supply Base, Mainaga, Mabini, Batangas

Justification : The area has been damaged by Typhoon Quinta and needs to be repaired to protect and prevent further erosion.

Major Category of Work: Construction of Grouted Riprap (Damaged by 2020 Typhoon)

I. SCOPE OF WORK:

The contractor shall supply all required labor, tools, materials, equipment, and necessary supervision and technical expertise to execute and complete the repair of damaged riprap at PNOC ESB.

1. Mobilization
2. Site inspection and layout of damaged riprap to be repaired.
3. Clearing of garbage and foreign materials at damaged area.
4. Hauling of eroded rocks/ boulders at bottom of the damaged area.
5. Laying of boulders riprap. The boulders shall be set or placed closed together as is practicable in order to reduce the voids to a minimum.
6. Sprinkling the surface of the completed rock before pouring cement grout.
7. The voids between the boulders shall be completely filled with the grout.
8. Curing the grouted rock riprap by sprinkling water.
9. Restoration of affected areas.
10. Demobilization

II. LABOR REQUIREMENTS

The minimum key personnel and work experience requirements are the following:

Key Personnel	General Experience	Relevant Experience
Project Engineer	Min. 5 years professional experience in over-all project management in engineering field	Min. 3 years' experience in construction or repair of grouted riprap.
Safety Officer	Safety Officer 2	
Foreman	Min of 3 years of being a foreman	Min. 2 years' experience construction or repair of grouted riprap.

Mason	Min of 3 years of being a mason	Min. 2 years' experience in construction or repair of grouted riprap.
Helper	Min of 3 years of being a helper	Min. 2 years' experience in construction or repair of grouted riprap.

The contractor's qualified safety personnel, supervisor, and lead foreman must always be present on site wherever work is being performed.

III. EQUIPMENT REQUIREMENTS

The minimum major requirements are the following:

Equipment	Capacity	Number of Units
Concrete Mixer	One Bagger	Min. of (1)
Water Truck / Pump	16,000 L	Min. of (1)
Backhoe	Wheel Type 0.28 cu m	Min. of (1)
Elf Truck	3 cu m	Min. of (1)

IV. MATERIALS REQUIREMENTS

- 1 The stones for riprap shall consist of rock as nearly as rectangular or round in section as is practicable. The eroded rocks from the damaged area shall also be reused but it shall be inspected and shall be free from cracks, seams, and other defects.
- 2 Mortar for grouted riprap shall consist of sand, cement and water mixed in the proportion of one part cement and three parts of sand by volume, and sufficient water to obtain the required consistency.
- 3 The horizontal and vertical contact surface between stones shall be embedded by cement mortar with minimum thickness of 20 mm. Sufficient mortar shall be used to completely fill all voids leaving the face of the stone exposed.
- 4 Portland cement shall be Type II or Type II A as specified in ASTM C 150.
- 5 Water used in mixing, curing or other designated application shall be reasonably clean and free of oil, salt, acid, alkali, grass or other substances injurious to the finished product.
- 6 Sand shall be cleaned, hard, natural siliceous sand conforming to the requirements of ASTM C 33.

V. BILL OF QUANTITIES

The contractor may refer to Annex A for the Bill of Quantities.

VI. DRAWING AND REFERENCES

The contractor may refer to Annex B for the shop drawing and photos of the damaged riprap for reference.

VII. PROJECT EXECUTION REQUIREMENTS:

A. Methodology Requirements

1. Mobilization & Demobilization

Mobilization shall include transportation to the site of Contractor's materials, equipment, employees, furnishings, and temporary facilities. The Contractor shall furnish, install and maintain temporary facilities and controls, as required to perform the work. This includes storage for construction materials, tools and machineries. Location of the temporary storage facilities shall be designated by PNOC. However, sleeping quarters inside the ESB premises is prohibited.

Demobilization shall include dismantling and removal from the site of Contractor's materials, equipment, and all temporary facilities. It shall include cleanup of the site after completion of work as approved by the PNOC Project Engineer. Proper waste management from source to final disposal shall be the responsibility of the contractor as approved by the PNOC management.

The Contractor shall furnish the PNOC Project Engineer with a resource schedule showing in detail the sequence of proposed delivery to the site of the materials and equipment necessary to comply with the proposed construction program.

Basis of Payment:

The quantities determined as provided above shall be paid for at the appropriate contract unit price, for each of the particular pay items shown in the Bill of Quantities which price and payment shall constitute full compensation for furnishing and maintaining such item.

Payment of Mobilization/ Demobilization	= 70% Mobilization (By progress billing) + 30% Demobilization (Upon certification by PNOC after demobilization has been completed)
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2. Occupational Safety and Health Program

All security, safety, and health controls necessary for the execution of the works such as but not limited to, medical facilities, manpower safety gadgets, sanitary arrangements, explosive and fuel, safety precaution, fire prevention shall be established and maintained by the Contractor at his own expense. The Contractor shall make himself responsible for all security, safety, and health controls and shall submit to the PNOC Project Engineer/ HSSE Officer for his approval the Occupational Safety and Health Program.

The contractor must provide all workers and supervisors with the complete Personal Protective Equipment (PPE) and necessary equipment in accordance with the Occupational Safety and Health Standard of DOLE Department Order 198-18, and RA 11058.

3. Permits and Licenses

The Contractor shall secure all Government permits and licenses required for the execution of the work. The contractor shall submit copies of the said permit and licenses to PNOC for monitoring of Contractor's compliance to government mandated protocols.

4. Warranty Bond

The Contractor shall be required to put up a warranty security in the form of cash, bank guarantee, letter of credit, GSIS or surety bond callable on demand. The warranty security shall be stated in Philippine Pesos and shall remain effective for one year from the date of issuance of the Certificate of Acceptance by PNOC.

5. Material Testing

All material testing and quality control expenses shall be shouldered by the Contractor and shall be conducted by a third party accredited by BRS/DPWH. All material testing shall be witnessed by PNOC Project Engineer and/or representative.

6. As Built Drawing

The Contractor shall submit all relevant documents to PNOC ESB on or before the date of final acceptance of the project such as: Final Joint Measurement, Final Quantification, As-built drawing, etc. The as-built plan shall be submitted in five (5) sets each size AO and A3.

As-built drawings shall be a pre-requisite in processing the final billing of the Contractor. The final payment will be paid upon certification by the PNOC Project Engineer that the submitted as built drawings has been compliant to his satisfaction.

7. Repair of Damaged Riprap

7.1 Grouted rock riprap shall be repaired using hand placement and the stone shall be set or placed as close together as practicable in order to reduce the voids to a minimum. The repair shall begin at the bottom and shall progress upward in approximately horizontal layers.

7.2 When rock riprap is repaired in layers, the layer shall be thoroughly tied together with large stones protruding from one layer into the other.

- 7.3 Each stone shall be bedded with the depth perpendicular to the surface upon which it set. Each main stone shall be placed against the adjoining stones with sides and ends in contact. The stone shall be placed in such a manner as to stagger all joints as far as possible.
- 7.4 After a workable area of the riprap has been set, the stones shall be knapped to a uniform surface, and voids shall be thoroughly chinked and filled with smaller stones and spalls.
- 7.5 After chinking and filling, the voids between the stones shall be completely filled with cement grout. Care shall be taken immediately before pouring the grout. The stones shall be wetted by sprinkling. The grout shall be carefully poured into the voids between the stones. This work shall begin at the lower portions of the damaged riprap and progress upwards. The entire bottom line of voids shall be filled with grout before the next line of voids above is poured to prevent earth or sand from filling the spaces between the stones before the grout is poured. Progress of pouring shall be sufficiently slow to prevent the grout from oozing from the voids and flowing over the surface. Grout shall be poured until such a time as all the voids have been completely filled and the grout has set even with the surface of the riprap.
- 7.6 As soon as any section of the grouted riprap has hardened sufficiently, it shall be cured by sprinkling with water. The water used for curing shall be free from salt or alkali.

B. General Conditions

1. A joint inspection must be conducted by the Contractor and PNOC Representatives on the specific works to be done for the project.
2. The contractor is required to inspect and examine the site and the surroundings of the proposed project to arrive at an estimate of the labor, materials, and equipment necessary to carry out the work.
3. The Contractor is required to secure the required surety, performance and guarantee bonds prior to the commencement of work.
4. The contractor shall secure the following requirements prior to execution of works:
 - a. PNOC ESB Work Permit System; and
 - b. Safety and Health Orientations of all personnel by PNOC ESB HSSE Officer.
5. The contractor is required to submit the following items subject for approval of PNOC within 7 days after issuance of Notice To Proceed:
 - a. Construction Methodology
 - b. Inspection and Test Plan
 - c. BOQ with Weighted Percentage
 - d. Manpower Histogram
 - e. Tools and Equipment Histogram
 - f. Work Schedule and S-Curve; and
 - g. Safety Program

6. The contractor must conduct proper planning and safety orientation meeting to all personnel involved in the work prior to commencement.
7. The contractor is required to coordinate all activities and work relative to the project with the PNOC representative for proper monitoring and coordination.
8. The Contractor shall commence work on the agreed Start Date and shall carry out the work in accordance with the program of work submitted by the CONTRACTOR, as approved by the PNOC representative and complete the project by the completion date as indicated in the TOR.
9. The contractor shall be liable for all accident claims and other related claims arising from injuries and damages, which may occur in relation to the execution of the project.
10. The contractor shall hold PNOC and its personnel free from any and all liabilities for damages arising from injuries or liabilities to persons or damages to property occasioned by any act or omissions of the contractor including any and all expenses which may be incurred by PNOC and its personnel in the defense of any claim, action or suit.
11. The cost of any and all rework and/or restoration of damaged properties due to Contractor's poor workmanship or negligence shall be borne by the contractor.
12. The Contractor must comply with all standard health and safety requirements to include, among others, the use of personal protective equipment by all workers, installation of safety signage, proper ID and observe company rules and regulations on safety and security.
13. The work shall be executed in the best and thorough manner throughout the project timeline to the satisfaction of PNOC, as represented by its engineers and supervisors who will jointly interpret the meaning of the scope of work and its conditions and shall have the power to reject any work, method of accomplishing every part of work and material used which in their judgment are not fully in accordance with the specifications and/or description as provided in the scope of work and are deemed to be disadvantageous to PNOC.
14. The Contractor shall be liable for all direct and consequential damages arising out of any failure to perform the work in accordance with the schedule and with terms and conditions of the contract documents.
15. The Contractor shall submit to PNOC ESB representative Daily Accomplishment Report for construction monitoring purposes. The Daily Accomplishment Report shall include manpower monitoring, equipment monitoring, accomplishment report, problems encountered on site, and progress photos.
16. The Base operations shall be given priority on the phasing of works. The Contractor should therefore coordinate with the PNOC ESB representative and/or Duty Supervisor regarding the scheduling and phasing of works so as not to interrupt the Base operations during project implementation.
17. The Contractor shall be liable for all direct and consequential damages arising out of any failure to perform the work in accordance with the schedule and with terms and conditions of the contract documents.

C. Site Possession

1. The Contractor confirms that he has inspected the site where the work will be performed; that he is fully aware of the conditions which might affect the nature, extent and cost of the work required; that PNOC shall in no way be responsible for any costs or expenses which may be incurred on account of failure of the Contractor to make an

accurate examination of present and/or assessment of future factors that may affect the cost of execution.

2. The Contractor shall be liable for all direct and consequential damages arising out of any failure to perform the work in accordance with the schedule and with terms and conditions of the contract documents
3. The PNOC ESB shall designate a specific area to be used by the CONTRACTOR as temporary facilities/storage area/administration area in connection with the project. Tapping point for the required utilities such as power and water shall be provided by PNOC. All power and water usages will be charged to the contractor.

D. Contract interpretation

1. The contract documents, specifications and drawings are mutually complimentary. In case of conflict, what is noted in one although not shown in another shall be considered contained in all. The specifications shall prevail over the drawings. The documents forming the contract shall be interpreted in the following order of priority:
 - a. Contract/Construction Agreement
 - b. Letter of Acceptance
 - c. Contractor's Bid
 - d. Special Conditions of the Contract
 - e. Specifications
 - f. Drawings
 - g. Bill of Quantities
 - h. Any other documents listed in the Special Conditions of the Contracts as forming part of the Contract.
2. The Contractor shall examine all the issued documents relating to the work and must have verified all existing conditions at the site. No consideration will be given for any alleged misunderstanding or misinterpretation of the specifications and materials to be used or work to be done.
3. All works shall be properly coordinated with PNOC ESB.

VIII. PROJECT DURATION

Work should be completed within Twenty - eight days (28) calendar days reckoned from the date of receipt of the Notice to Proceed. The 28 calendar days includes the seven (7) days rainy/ unworkable days with the approval of the PNOC ESB management.

NOTE: Delays due to work stoppage (related to contractor's noncompliance to Safety, Health, Security, and Environmental policies of ESB) ordered by PNOC shall not be counted against the set completion date.

IX. WARRANTY PROVISIONS

The warranty shall be One (1) year reckoned from the date of final turn-over and acceptance.

X. DEFINITION OF SIMILAR PROJECTS

The contractor must have at least five (5) years of relevant experience and have completed at least two (2) projects in construction and/or repair of grouted riprap.

TERMS AND CONDITIONS

1. Payment Terms: Government Terms - full payment upon completion of delivery/implementation, or subject to the conditions specified in the Scope of Works/Activities or Terms of Reference.
2. All entries shall be typed or written in a clear legible manner.
3. Bidder shall offer one (1) bid only. Alternative bids shall be rejected.
4. All prices offered herein are valid, binding and effective for THIRTY (30) calendar days upon issuance of this document.
5. As a general rule, price quotations to be denominated in Philippine Peso shall include all taxes, duties and/or levies payable.
6. In case of tie quotations, tie breaking shall be on draw lots or toss coin.
7. In case supplier pro forma quotation is submitted, conditions will be governed by the submitted signed Terms of Reference / Technical Specifications Sheet.
8. During evaluation of quotation/proposal, the project proponent may require additional documents to verify, validate and ascertain the compliance of the supplier/contractor or consultant.

We undertake, if our Proposal is accepted, to supply/deliver the goods/services in accordance with the specifications and/or delivery schedule.

We agree to abide by this quotation/proposal for a period of thirty (30) calendar days, which is the price's validity period and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a Contract or a Purchase Order is executed, this Quotation/Proposal shall be binding upon us. We understand that you are not bound to accept the lowest or any Proposal you may receive.

Signature over Printed Name : _____

Designation/Position : _____

Name of Organization : _____

Organization Address : _____

Tel No. / Mobile No. and Email Address : _____

X. DEFINITION OF SIMILAR PROJECTS

The contractor must have at least five (5) years of relevant experience and have completed at least two (2) projects in construction and/or repair of grouted riprap.

XI. PROJECT COST

ABC = Php 620,000.00 (Inclusive of all taxes)

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Signature over Printed Name : _____

Designation/Position : _____

Name of Organization : _____

Organization Address : _____

Tel No. / Mobile No. and Email Address : _____



Project Title : Repair of Damaged Riprap at PNOC ESB

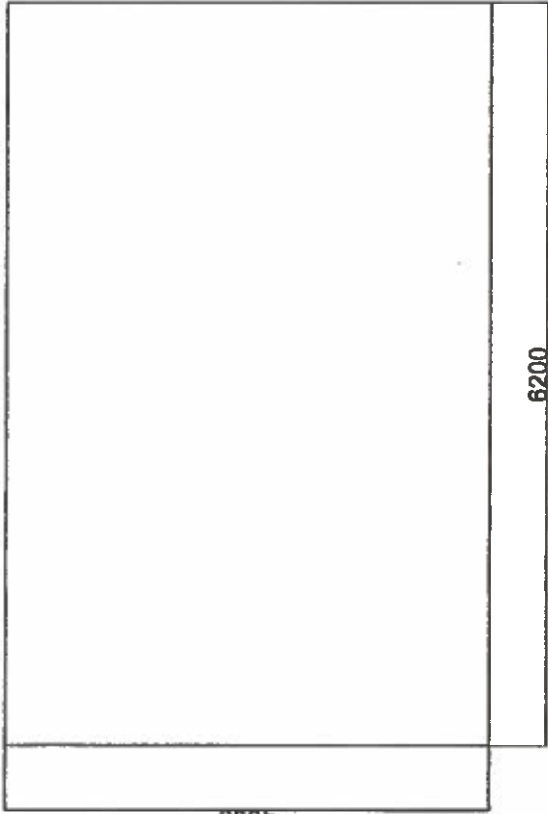
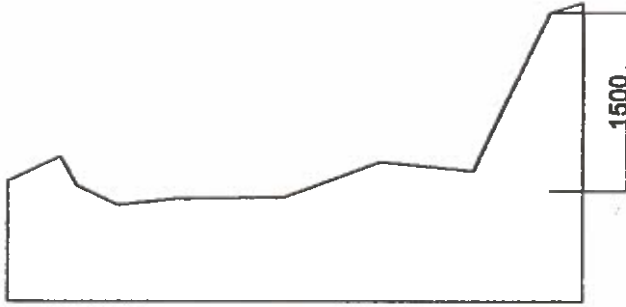
Bill of Quantities

No.	Description	Qty.	Unit	Unit Cost	Total Cost
I. General Requirements					
1.1	Mobilization & Demobilization	1	lot		
1.2	Occupational Safety and Health Program	1	lot		
1.3	Permits & Licenses	1	lot		
1.4	Warranty Bond	1	lot		
1.5	Material Testing	1	lot		
1.6	As-Built Drawings	1	lot		
Subtotal					
II. Repair of Damaged Riprap No. 1 (40.5 cu m)					
		40.5	cu m		
III. Repair of Damaged Riprap No. 2 (37.2 cu m)					
		37.2	cu m		
IV. Repair of Damaged Riprap No. 3 (33 cu m)					
		33	cu m		
Total Project Cost (Inclusive of All Taxes)					

Company Name: _____

Address: _____

Contact Number: _____



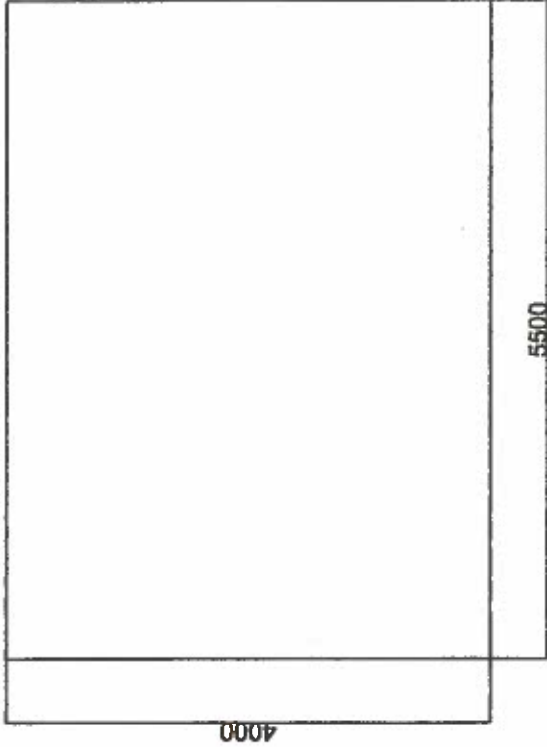
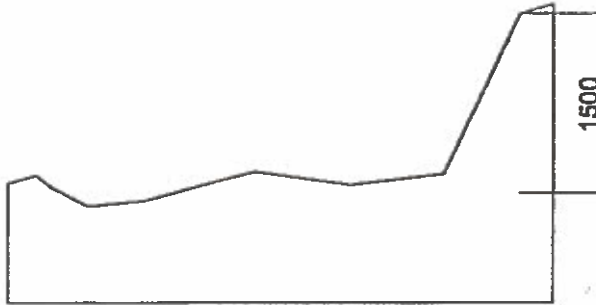
Actual Photo of
Damaged Riprap No. 2

Cross Section

As Built Detail

NOTE: MEASUREMENTS IN MILLIMETERS


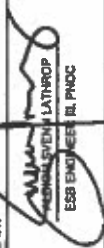

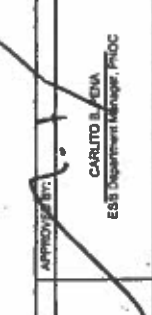
OWNER: PNOG	PROJECT: PNOG ENERGY SUPPLY BASE	LOCATION: BRD7, LUBRACA, UMBING, BATANGAS	PREPARED BY: <i>[Signature]</i> ESB ENGINEER II, PNOG	CHECKED BY: <i>[Signature]</i> MRSA C. CALITUBAMA ESB ENGINEER IV, PNOG	APPROVED BY: <i>[Signature]</i> CARLITO B. PERA ESB Department Manager, PNOG	DRAWING NAME: ANNEX B	SHEET NO.: 2	DATE: 14 JULY 2021



Actual Photo of Damaged Riprap No. 3

Cross Section

As Built Detail

 PNO ENERGY SUPPLY BASE <small>10000 Old Highway 100, P.O. Box 10000, Houston, Texas 77033 Phone: 281.293.3000 Fax: 281.293.3001 www.pno.com</small>	PROJECT: REPAIR OF DAMAGED RIPRAP LOCATION: BRDY. DAMAGED RIPRAP, BAYTUGAS	PREPARED BY:  ARNEL EVILYN LATROP ESB ENGINEER III, PNO	CHECKED BY:  ARNEL EVILYN LATROP ESB ENGINEER III, PNO	APPROVED BY:  CARLITO S. FAVA ESB Department Manager, PNO	DRAWING NAME: ANNEX B	PROJECT NO.: 3 3 DATE: 14 JULY 2021
	NOTE: MEASUREMENTS IN MILLIMETERS					